

Integrated Service Management System
Inventor: Takeshi Ishizaki

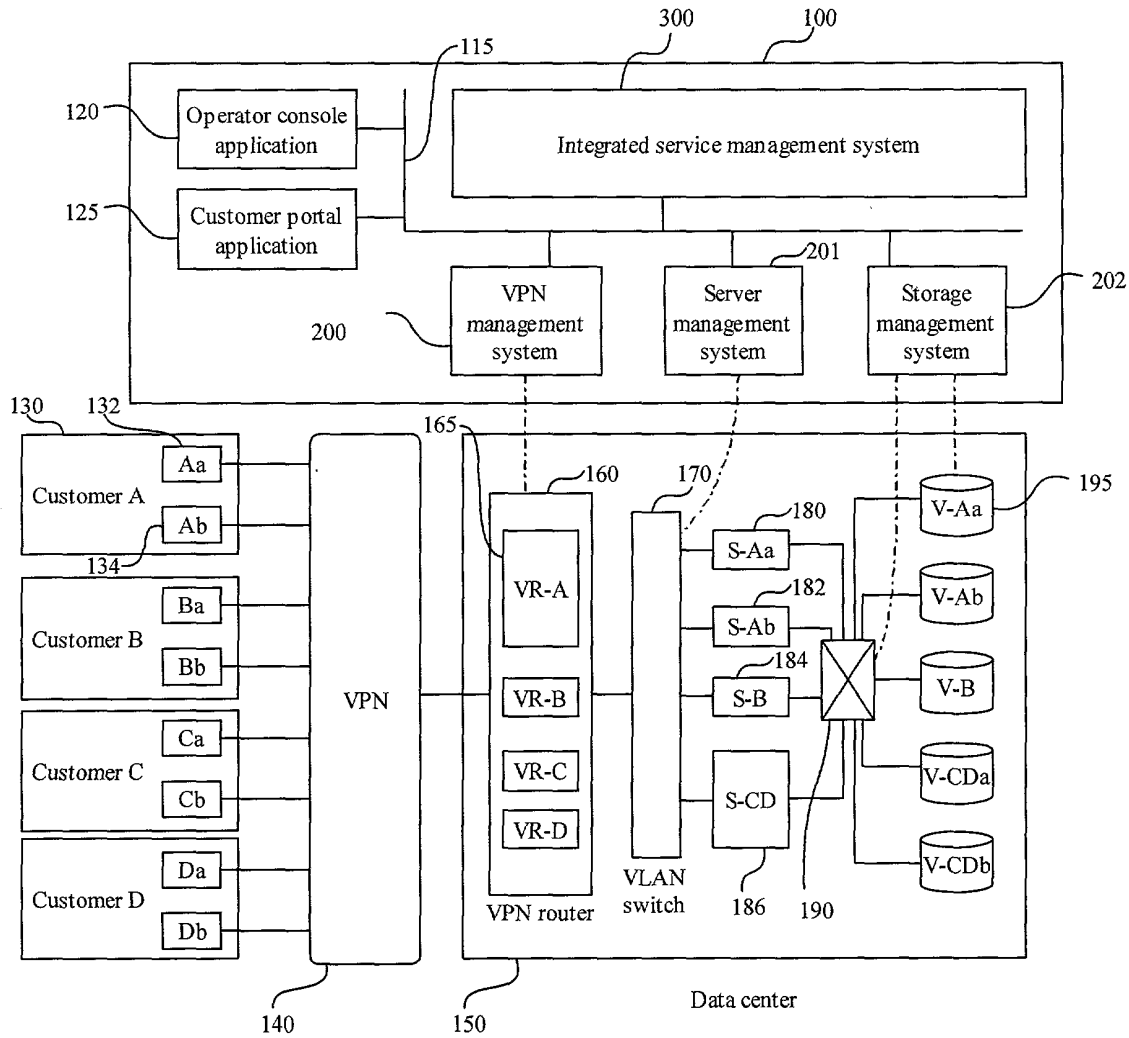


Fig. 1 System configuration

FIG 1.

Integrated Service Management System

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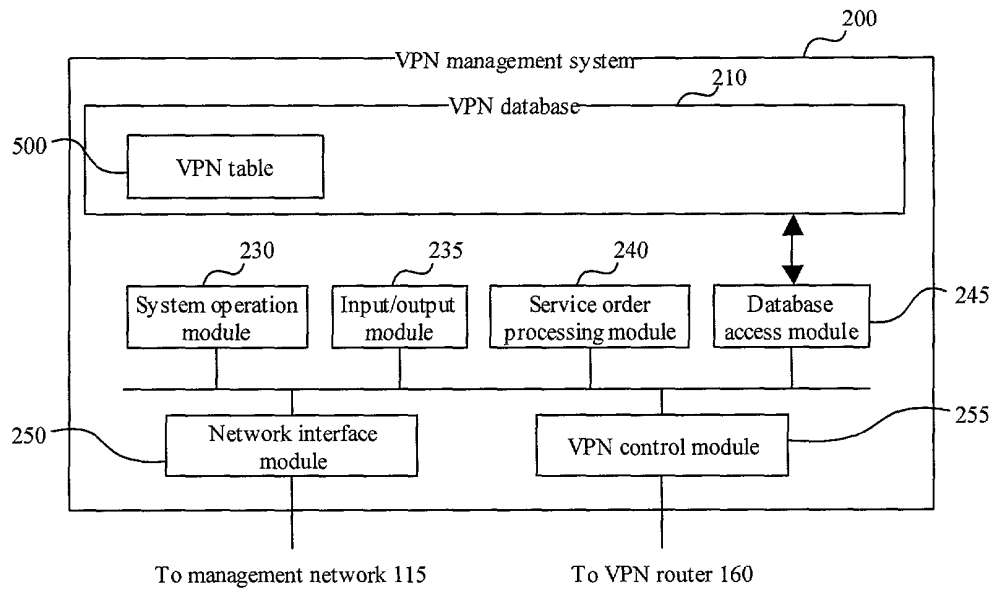


Fig 2 VPN management system

FIG. 2

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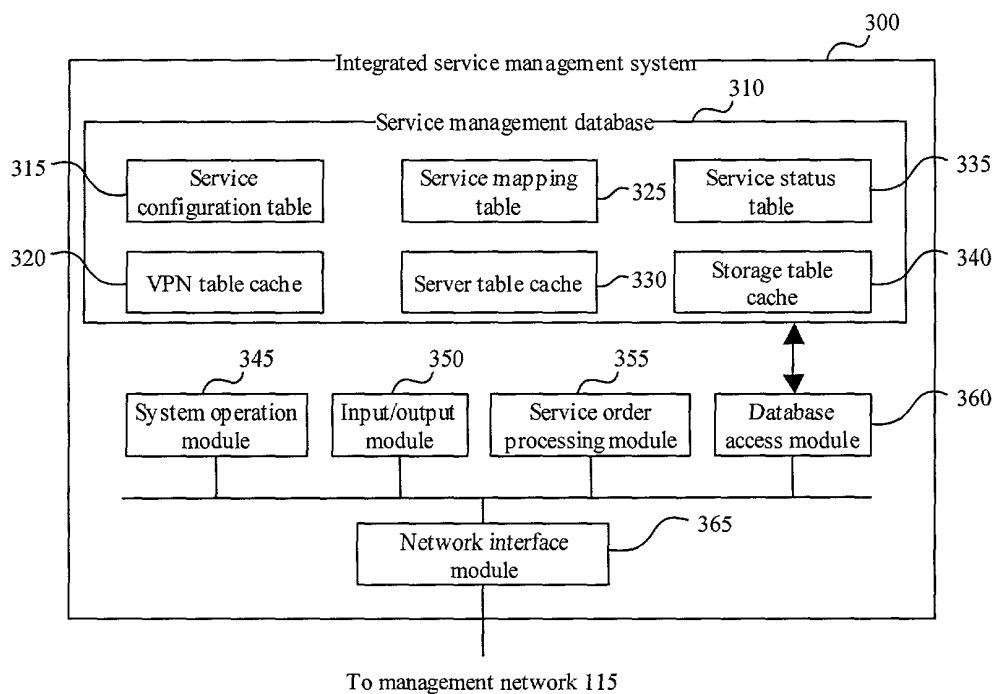


Fig. 3 Integrated service management system (ISMS)

FIG 3.

Integrated Service Management System
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400

Subsystem name	Address
VPN subsystem	192.168.1.11
Server subsystem	192.168.1.12
Storage subsystem	192.168.1.13

Fig. 4 Service configuration table

FIG. 4

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VPN ID	Site	Address 1	Address 2	Protocol	Internet	VLAN ID
VR-A	Aa	IP(Aa)	IP(VR-A)	PP2P	Yes	VID-A
	Ab	IP(Ab)	IP(VR-A)	PP2P	Yes	
VR-B	Ba	IP(Ba)	IP(VR-B)	IPsec	Yes	VID-B
	Bb	IP(Bb)	IP(VR-B)	IPsec	No	
VR-C	Ca	IP(Ca)	IP(VR-C)	L2TP	No	VID-C
	Cb	IP(Cb)	IP(VR-C)	L2TP	No	
VR-D	Da	IP(Da)	IP(VR-D)	IPsec	Yes	VID-D
	Db	IP(Db)	IP(VR-D)	IPsec	Yes	

Fig 5 VPN table

FIG. 5

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Server	Address	VLAN ID	Application	OS	CPU
S-Aa	IP(S-Aa)	VID-A	WWW	OS-1	1GHz
S-Ab	IP(S-Ab)		Email	OS-1	1GHz
S-B	IP(S-B)	VID-B	WWW/Email	OS-2	866MHz
S-CD	IP(S-CD)	VID-CD	Email/Calendar	OS-3	750MHz

Fig. 6 Server table

FIG. 6

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Volume	Port	Server allowed	Capacity	Access
V-Aa	P(V-Aa)	S-Aa, S-Ab	100GB	Read only
V-Ab	P(V-Ab)	S-Aa, S-Ab	100GB	Read only
V-B	P(V-B)	S-B	50GB	Read only
V-CDa	P(V-CDa)	S-CD	30GB	Read/Write
V-CDb	P(V-CDb)	S-CD	30GB	Read only

Fig. 7 Storage table

FIG. 7

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Customer	VPN	Server	Volume
Customer A	VR-A	S-Aa, S-Ab	V-Aa, V-Ab
Customer B	VR-B	S-B	V-B
Customer C	VR-C	S-CD	V-CDa, V-CDb
Customer D	VR-D	S-CD	V-CDa, V-CDb

Fig. 8 Service mapping table

FIG. 8

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Customer	VPN	Server	Volume
Customer A	Normal	Normal	Normal
Customer B	Normal	Normal	Normal
Customer C	Normal	Normal	Fault
Customer D	Normal	Normal	Normal

Fig 9 Service status table

FIG. 9

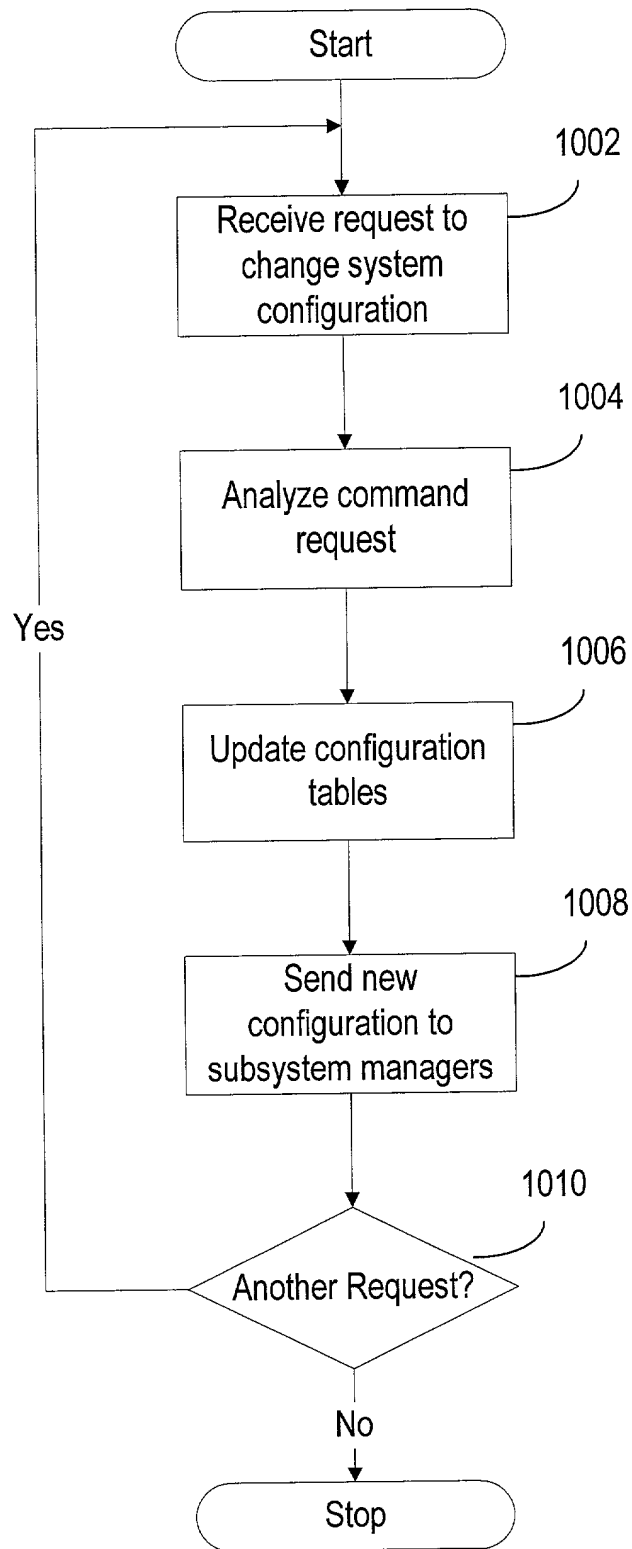


Fig. 10

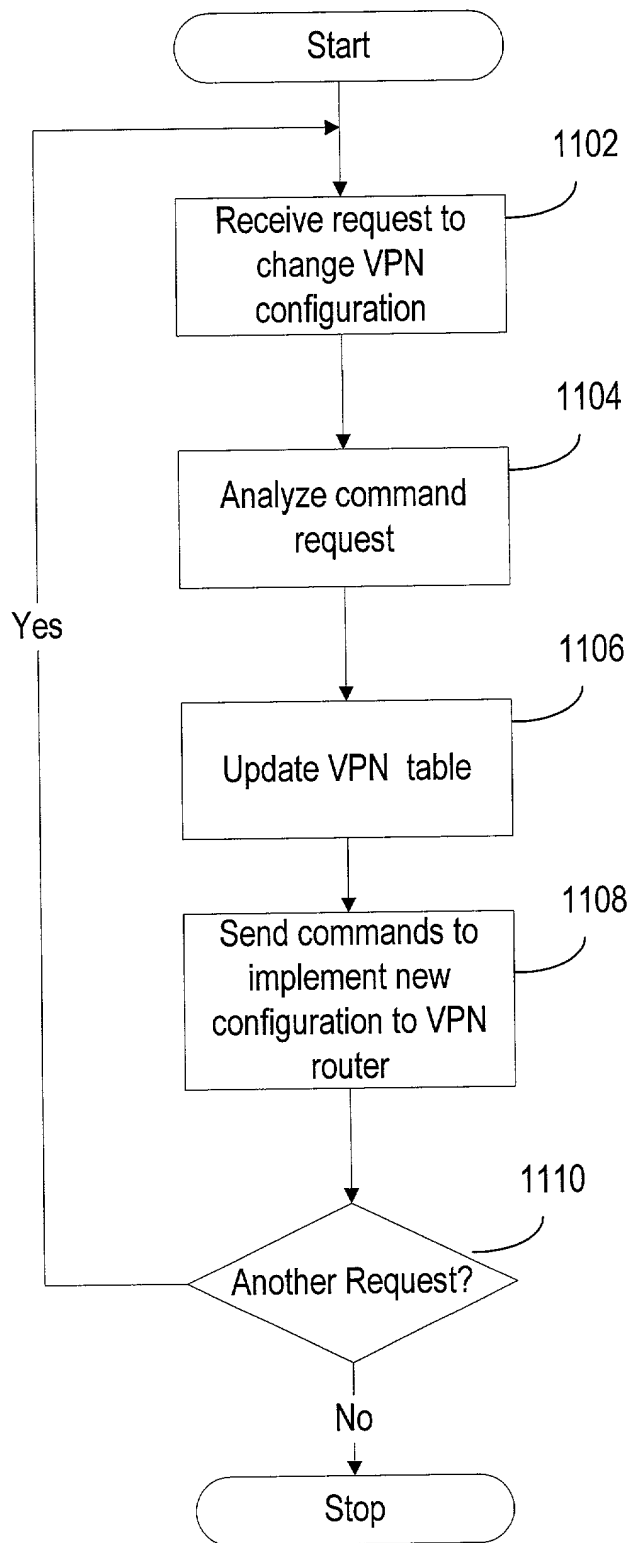


Fig. 11

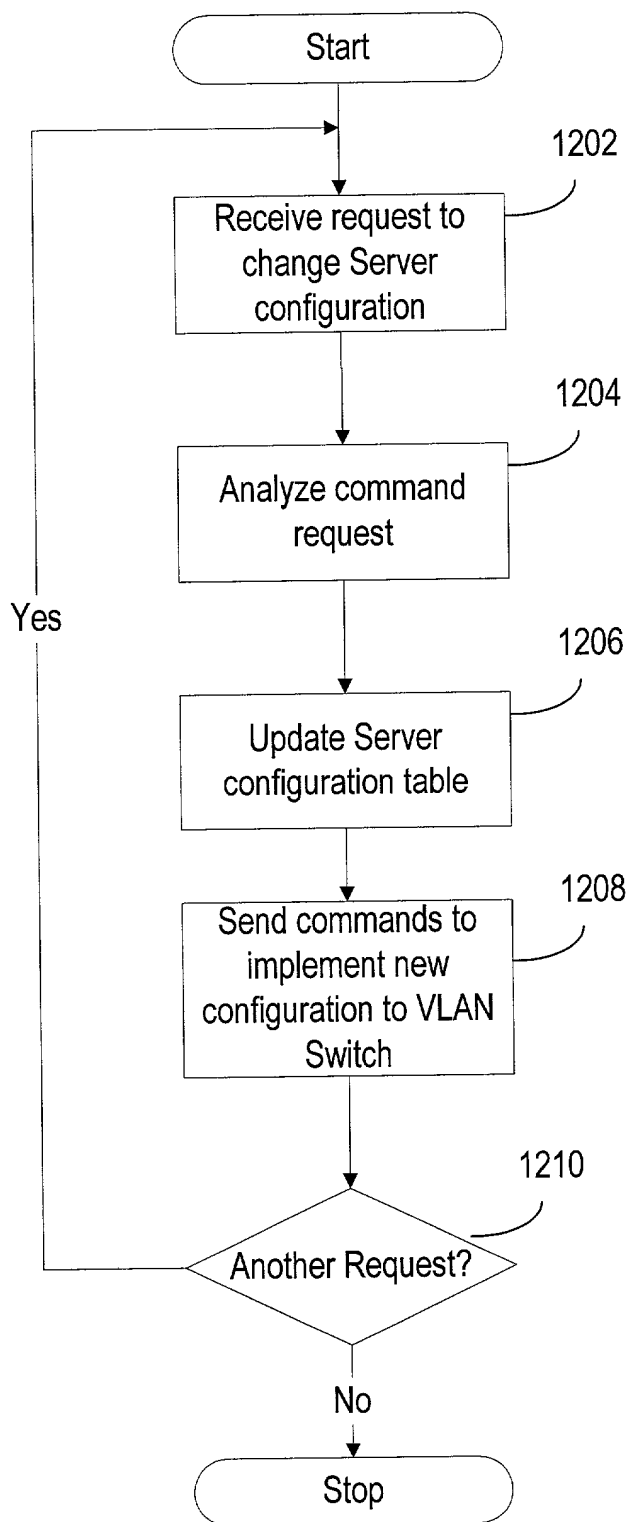


Fig. 12

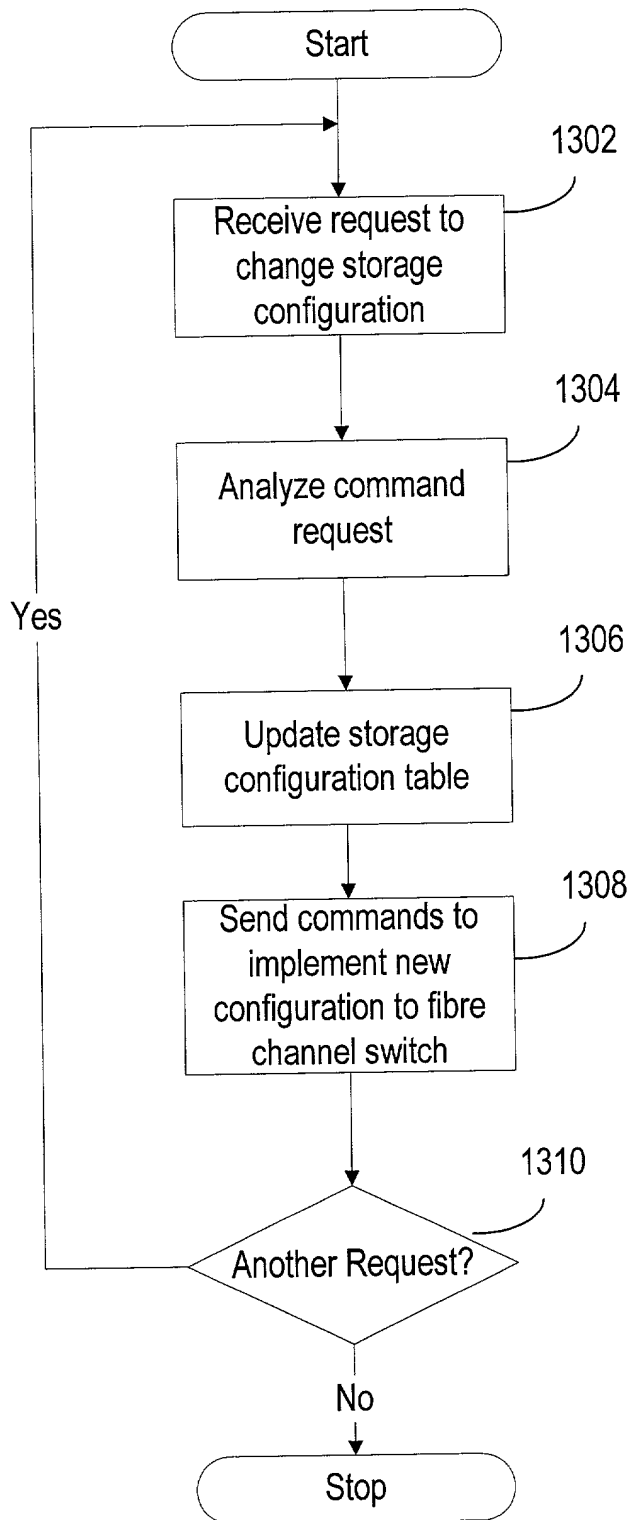


Fig. 13